

Genuine Viton® 75-compound 51414 black - Technical Data Sheet

1. Introduction

Original Viton® 51414-compound is based on a 100% Genuine Viton® polymer. Products out of this compound are being made according to strict guidelines of DuPont Dow Elastomers. This guarantees a constant high quality level. All products carry the specific, easy recognizable emblem on their package. ERIKS standard original Viton® compound for O-Rings.



2. Product Description

Chemical Composition :	Copolymer of Hexa-Fluoropropylene and Vinylidene Fluoride, plus cure chemicals
Physical form :	O-Rings / Mouldings
Colour :	Black
Odour :	None
Solubility :	Low molecular weight esters and ketones
Storage stability* :	Excellent

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48 Method M	75° ± 5° IRHD
Tensile Strength at break	ISO 37	min 13 MPa
Elongation at break	ISO 37	min 170%
Specific Weight	ISO 2781	1,85
Compression Set	ISO 815	
25% compression - 24h/200°C on slab	ISO 815	max 12%
on O-Ring (3,53 mm)		max 18%
Heat Ageing 70h/200°C	ISO 188	
Hardness Change		max +4°

4. Temperature Resistance

- -20° to +200°C
- TR10 (low temp. resistance): -16°C

5. Chemical Resistance

Concentrated acids	: excellent
Acetone	: bad
Hydroxides	: excellent
Benzene	: excellent
Crude oil	: excellent
Toluene	: excellent
Fuel C	: excellent
Gasoline	: very good
BTM oil 3	: excellent
Methylene chloride	: very good
MEK	: bad
MTBE	: bad
Water <100°C	: good

6. Advantages

- Very low compression-set
- Stock item for ca 6000 dimensions
- Labeled with Viton® stickers

7. Safety and Handling

Read and be guided by the recommendations in the DuPont Dow Elastomers technical bulletin H-71129-02, 'Handling Precautions for Viton® and Related Chemicals'.

8. Other Information

- Can be formulated to meet FDA 177.2600 compliance, or: Mil-R-83248B and AMS7276D

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.